



PATENT ABSTRACTS OF JAPAN

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AKI YUICHI**(54) **OPTICAL DISK RECORDING DEVICE**

(57) Abstract:

PROBLEM TO BE SOLVED: To record signals by using an ultraviolet laser beam without deterioration of the signal quality by removing scattering particles generated from an optical disk at the time of forming signal grooves on the optical disk by using a blow-off nozzle.

SOLUTION: A gas pressurized by a gas pressure source 41 is led to a valve 43 through a conduit tube 42. The valve regulates a flow rate of the gas. The blow-off strength of the gas onto the optical disk 8 is thus controlled. The flow rate regulated gas is led to a blow-off nozzle 45 through a conduit tube 44, and is blown off from the tip of the nozzle 45 onto the position

where a pit is to be formed on the disk 8. The nozzle 45 is arranged so that it always maintains a fixed positional relationship to an objective 6 and the optical disk 8 and also the gas blown out of the nozzle flows approximately in a fixed direction. Thus, articles scattered from the optical disk 8 associated with pit forming can be removed.

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